

Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

Lee Rowe Ditch

Water Body Segment at a Glance:

County:	Mississippi
Nearby City:	East Prairie
Water Body ID:	3137
Segment Length:	6 miles
Pollutants:	Low dissolved oxygen
Source:	Unknown



Location of Mississippi County, Mo.

Scheduled for TMDL development: 2020

Description of the Problem

Designated beneficial uses of Lee Rowe Ditch:

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation – Category B

Uses that are impaired:

- Protection of Warm Water Aquatic Life

Standards that apply

- The dissolved oxygen criterion applicable to Lee Rowe Ditch is found in Table A of Missouri's Water Quality Standards at 10 CSR 20.7.031. Table A states that the minimum allowable dissolved oxygen concentration for warm-water and cool-water fisheries is 5 milligrams per liter (mg/L).

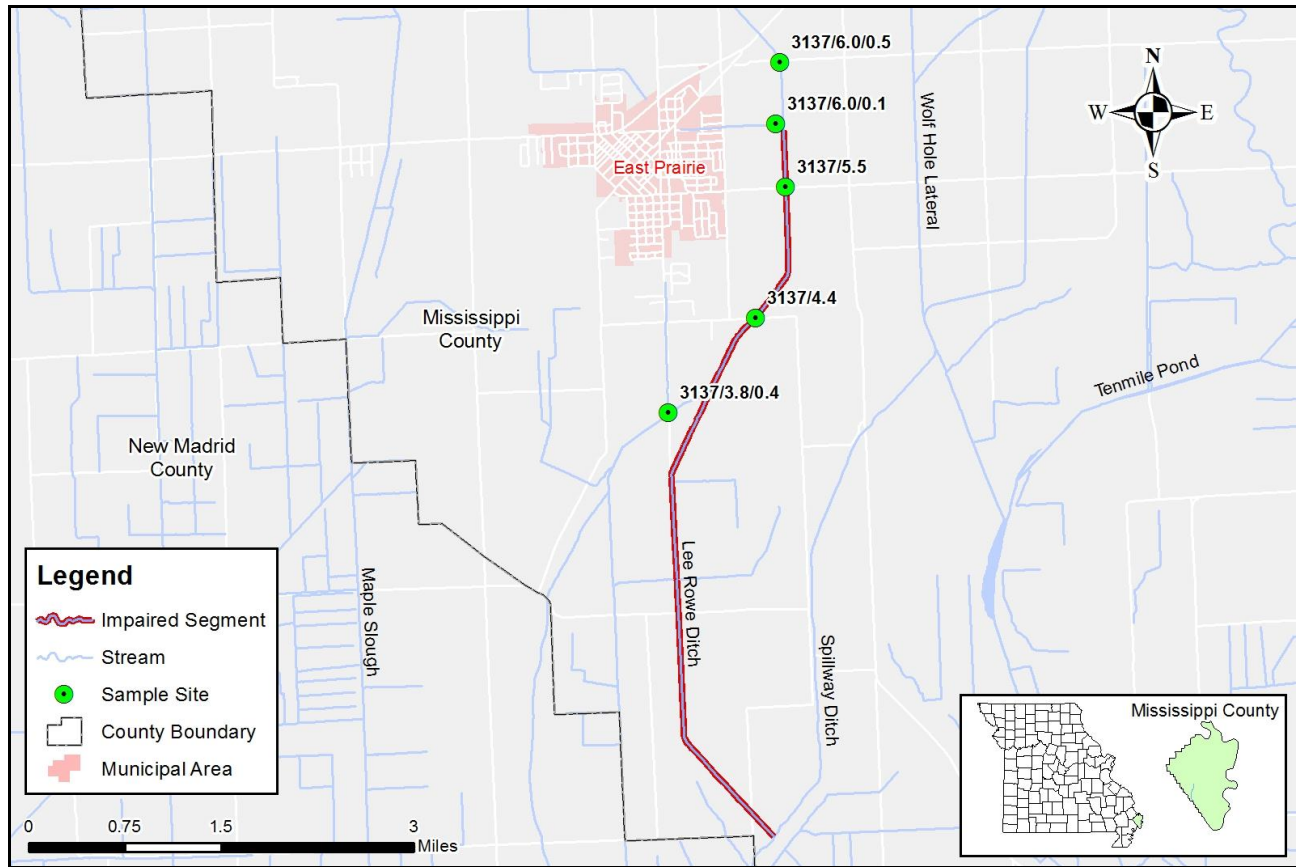
Background information and water quality data

Lee Rowe Ditch is a channelized stream located 0.5 miles east of East Prairie, Mo. Lee Rowe Ditch is a tributary of Spillway Ditch. A water is judged to be impaired due to low dissolved oxygen if ten percent or more of available dissolved oxygen measurements fall below the water quality criterion of 5 mg/L. Dissolved oxygen data was collected from Lee Rowe Ditch in 2009. Three samples were found to have dissolved oxygen concentrations lower than the minimum criterion. For this reason Lee Rowe Ditch has been assessed as impaired due to low dissolved oxygen.

Dissolved Oxygen Data

<i>Org</i>	<i>Site</i>	<i>Site Name</i>	<i>Yr</i>	<i>Mo</i>	<i>Dy</i>	<i>Time</i>	<i>Flow</i>	<i>DO</i>
MDNR	3137/6.0/0.5	Lee Rowe Ditch 0.5 mi.ab. E. Prairie WWTP	2009	7	9	1430	4.4	9.8
MDNR	3137/6.0/0.5	Lee Rowe Ditch 0.5 mi.ab. E. Prairie WWTP	2009	7	10	643		3.6
MDNR	3137/6.0/0.1	East Prairie Lagoon Effluent	2009	7	9	1410	0.45	10
MDNR	3137/6.0/0.1	East Prairie Lagoon Effluent	2009	7	10	632		7.6
MDNR	3137/5.5	Lee Rowe Ditch @Hwy 80	2009	7	9	1355		>20
MDNR	3137/5.5	Lee Rowe Ditch @Hwy 80	2009	7	10	620		2.4
MDNR	3137/4.4	Lee Rowe Ditch @CR 525	2009	7	9	1345		5.5
MDNR	3137/4.4	Lee Rowe Ditch @CR 525	2009	7	10	610		6.8
MDNR	3137/3.8/0.4	St. James Ditch	2009	7	9	1325	6.3	9.9
MDNR	3137/3.8/0.4	St. James Ditch	2009	7	10	558		3

Map Showing Lee Row Ditch and Sample Sites



Note: Final TMDLs developed for Lee Rowe Ditch will be based on the most current and available data and information.

For more information call or write:

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